Title	APS Water Systems Upgrade/Obsolescence			
Project Requestor	Swetin			
Date	03/03/2008			
Group Leader(s)	Goeppner			
Machine or Sector Manager	Quintana			
Category	Obsolescence/Spares			
Content ID*	APS_1253316	Rev.	1	

*This row is filled in automatically on check in to ICMS. See Note [1]

Description:

Start Year (FY)	**2008**	**Duration (Yr)**	**1**

Objectives:

Improve machine reliability by replacing aging components.

Benefit:

Increased machine reliability, decreased spare parts inventory, enhanced troubleshooting.

Risks of Project: See Note [2]

No known risk.

Consequences of Not Doing Project: See Note [3]

Increased stored beam interruption and down time due to increased failure rate of aging components that require service at higher frequency.

Cost/Benefit Analysis: See Note [4]

Installation of new pumps and flow meters will match those that are installed throughout many of APS water systems minimizing spare parts requirements.

Description:

Pump Replacement - $74K
Booster Isolation Valves - $30K
Control Valves - $33K
Linac Skids Controls - $43K

Funding Details

Cost: ($K)
180.00.

Year	AIP	Contingency
1	180	
2		
3		
4		
5		
6		
7		
8		
9		
Total	180	

Contingency may be in dollars or percent. Enter figure for total project contingency.

Effort: (FTE)
The effort portion need not be filled out in detail by March 28

Year	Mechanical Engineer	Electrical Engineer	Physicist	Software Engineer	Tech	Designer	Post Doc	Total
1								0
2								0
3								0
4								0
5								0
6								0
7								0
8								0
9								0

Notes:
[1] **ICMS**. Check in first revision to ICMS as a *New Check In*. Subsequent revisions should be checked in as revisions to that document i.e. C*heck Out* the previous version and C*heck In* the new version. Be sure to complete the *Document Date* field on the check in screen.

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[2] **Risk Assessment.** Advise of the potential impact to the facility or operations that may result as a consequence of performing the proposed activity. Example: If the proposed project is undertaken then other systems impacted by the work
include ... (If no assessment is appropriate then enter NA.)

[3] **Consequence Assessment.** Advise of the potential consequences to the facility or to operations if the proposal is not executed. Example: If the proposed project is not undertaken then ____ may happen to the facility. (If no assessment is appropriate then enter NA.)

[4] **Cost Benefit Analysis.** Describe cost efficiencies or value of the risk mitigated by the expenditure. Example: Failure to complete this maintenance project will result in increased total costs to the APS for emergency repairs and this investment of ___ will also result in improved reliability of ____. (If no assessment is appropriate then enter NA.)